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ATMOSPHERIC PRESSURE.

Illustrated by Means of Some Amusing

Feats of Familiar Science. Our Illustrations have a strong resemblance to advertisements of somebody ex other's champion cement for mending glass and crockery, but in point of fact dvantage is simply taken of the pressure of the atmosphere, and the various effects about to be described are no more than variations of the good old experiment known as the "hemispheres of Magde-

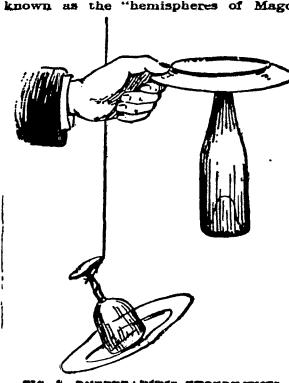


FIG. 1-ENTERTAINING EXPERIMENTS. burg," which is said to have been first performed in 1850. The apparatus for this consists of two hollow hemispheres of copper, with their edges accurately planed, one of them being furnished with a stopcock. The edges being greased, the two hemispheres are placed in conjunction, and the inclosed air is exhausted through the stopcock. The pressure of the atmosphere then holds the hemispheres together with immense force, a pair one foot in diameter requiring a force of nearly a ton to sepa-

Without an airpump only a partial vacuum can be produced, but this will suffice in the cases here illustrated. Suspend a drinking glass mouth downward from the ceiling, and immediately beneath it burn a piece of paper. The air will expand under the influence of the heat, producing as it cools again a partial vacuum within the glass. This partial vacuum will be sufficient to hold tight to the glass (by atmospheric pressure) a china plate, which, before the cooling of the air within the glass, you have pressed closely mings to match, against its mouth. To prevent the external air from finding its way between glass and and plate you should slightly grease with

suet the edge of the former. The mouth of the bottle, offering but a very small superficial area, makes the first of the bottle and plate experiments a matter of some difficulty. To insure success you must make the vacuum in the bottle as perfect as possible. To effect this hold

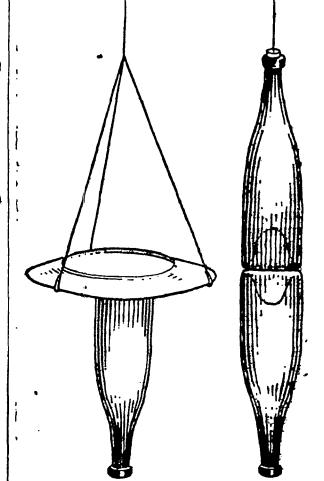


FIG. II-ENTERTAINING EXPERIMENTS. the bottle, mouth downward, over the steam of a boiling kettle. When the bettle thoroughly filled with steam you must press its mouth, after having duly greased the edges, against the plate, and when the condensation of the vapor has produced a sufficiently perfect vacuum you will find that on lifting the plate the bottle remains suspended from it.

The bottle adhering by its bottom to the plate and the two bottles held bottom to bottom are experiments more easily managed. In these two cases you held the bottom or "kick" of the bottle for a moment or two over the steam. There is nothing extraordinary in these experiments. It must be borne in mind that by reason of the weight of the sir, which counterbalances in the barometer that of a column of mercury thirty inches high, the pressure exercised by the atmosphere is about fifteen pounds to the square inch. As a cavity at the bottom of a wine bottle covers a surface of four to six square inches, such a cavity, if completely exhausted of air, would support without difficulty a weight of fifty pounds or even

Conclusions About the Comet. It seems pretty definitely decided, ac cording to the calculations of a number of eminent astronomers, that Holmes' comet, the recent wanderer in the heavens, is not identical with Biela's comet, but is a stranger making a first appearance, and is now traveling rapidly away from the earth, to which it has never been nearer than 100,000,000 miles. It is, however, one of the biggest comets on record, with a diameter of 650,000 miles.

The meteoric showers occurring at about the same time with the new comet are said to be due to the earth's passing through the orbit of Biels's comet and meeting with particles of that comet in the shape of meteors. One autresomer assures ns that the mass of the comet is far iess dense than the air we breathe, and should it strike the earth passing through it would be an interesting and pleasant experience entirely without danger.

The Height of the Autora Borealis. In experiments made by the Danish academy by means of two theodolites situated four miles apart it was found that different autoral displays varied from one to four miles in beight. Experiments near Cape Farewell showed the height of different auroras to vary from one to ten miles. At Spitzenberg the range of height was from one-third to angleseen makes. From the continues arrived at by earlier investigators.



WEDDING DRESS.

A Handsome Bridal Robs-Picturesque Costumes Worn by Malds and Pages At a recent very fashionable English wedding the bride was attired in a dress of cream satia, with a flounce of Brussels

lace (the gift of her mother), headed with



the long train; she wore a diadem of bridat fustened with diamond stars, and a diamond neckface. A very large shower bous quet was carried by the bride. Eight little children, four boys and four

girls, walked in pairs behind the bride and formed a charming procession in their quaint costumes, copied from Van Dyke's picture of the children of Charles I. The girls wore long white satin frocks, the short waisted bodices and puffed sleeven sleeves being slashed with white silk muslin, and the collars and cuffs were com-posed of Van Dyke lace; their knot breeches were fastened with a large bow of gray satin ribbon, and they wore gray stockings and black shoes with large gray satin rosettes. Our first cut shows the bride

with two of her pages and a little The bride's going away dress was of heliotrope cloth trimmed with astrakhan and having black

velvet sleeves, cloak and trimhat lined with heliotrope and trimmed with feathers. The pretty page's costume depicted in the second cut consists of a white satin court cos-

tume, with pale yellow vest and revert trimmed with gold buttons, knee breeches tied with vellow satin ribbon, a lace cravat and buttonhole of yellow Marguerites.

Fur Trimmings.

Fur trimmings are more used than they have ever been, but to be fashionable they must be very narrow. Most of the bands are an inch wide on the pelt, and those of long fleece are still narrower. Mink is of all furs the most used, and is especially handsome when made of the long dark tails sewed together in a band-not to hang as fringe in the way of last season. One such narrow band edges dress fronts, bolero jackets, collars, sleeves, and is considered sufficient on the skirt. French modistes, however, are using several bands of furtrimming around the skirt, the upper ons about the knee. Thus in four rows of narrow mink one is at the foot, one about the together in the space between. Of course Russian sable is preferred by those who can afford the great expense, and after thin the Hudson bay sable; but mink tails are quite as effective, and are now used on dresses of any color, on house gowns and evening dresses alike, as well as on street costumes. Next in favor, according to Harper's Bazar, authority for the foregoing, are wolverine bands—a long dark brown fur taken from the back of the animal Next is seal trimming, then astrakhan gray krimmer, black marten, lynx and for

Parisian Novelties.

The clever Parisienne has hit upon a lit-

tle trick by which she imitates what is generally considered an unkind trick of nature. Many of the grand ladies at Paris are wearing veils of purplish net and gauze. A large number of these ladies are addicted to the plentiful use of cosmetics But although the "snow and roses" complexion conjured up by means of poudre de riz and rouge is all very well for warm weather, it becomes unnatural in the days of rime frost and nipping east winds, the correct thing for complexions in cold weather being a slight admixture of the purple tint resulting from cold air. The purple veil supplies the shade almost to perfection. Hence "the latest in veils." Another piece of French fashionable is nearly over, and that in a very short time, when they are to be sent by mail. the close fitting and all but brimless hats will hold their own once more, the turi an toque, gay of color and with a border of

fur, being greatest among them all. Fashion's Echoes.

Fur muffs are larger, and the scarflike cravats and collars in various shapes have entirely replaced the long boas. popular cloth coat has a full collarette, which gives much breadth to

The new capes in sable, mink or sealskin assume the military shape, hanging loose from the shoulders and reaching to the

The fashion of combs for the hair, in gold, silver and shell, is evidently here to

Emeralds are now a favorite jewel. Pale lilac, with monogram or address in darker tint, is a pretty novelty in station-

ery, and a soft dove gray, with address in silver, represents another artistic combina-Very graceful and artistically colored

ciefis of some of the natural wood handles, | tongue. With the second of the second



RESTORING LOSS OF BONE

How Two French, Surgeons, Hasten the Process of Omification

Operations on the bones penerally leave closs of substance which offen requires some time to all up, if it ever does suggeded in coming back to its original condition. This does not moun that the hone, unlike other tissues, is not endowed with regitative power, but it depends on the fact that the fresh bear tissue which it supplies is at first soft and cartilaginous, designed taking place later on. The New York Heralli, authority for the foregoing, while that two Evence surgions of high standing, MM. Duplay and Carin, have tried to fill there know of substance by intermed ater-ilised articles—that is to say, articles that-have been rigorously deprived of all germs, to that they can be definitely left in the to that they can be definitely left in the there are between the lines. They have made use shiefly of are the lines, where made use shiefly of are the lines, where many on the lines, where many on the lines with the measure item ties, such as gause, spinger, easing, colton Captain Jack and his bloodthirsty Modes their chief, and Bogus Charley passed the

first series of feurteen experiments in Friendly Indiana, who knew the Modocs In Camby weamp at the time time time which bony cavities were filled by frage purposes, scouts, and above all a sillaw, white interpreter name filling ments of sponge sterified by heat their id who had the privileges of Capt. Fack's wife was a Modoc toyal to her arrived a not have a single case of failure. As early fair, and learned by uncerting signs that friends. The squaw known as Toke awthe fifth day-the aponge fragments were mischief was on foot, warned the army frequently visited the lava Hely and completely penetrated by new cellular ele-leaders and Indian commissioners not to about the time that Captain Jack's arrived and the was possible to watch the trust themselves within reach of the law apparently for peace she insisted.

"It is a fact well established by students" of heredity," says the New York Sun, "that children are apt to inherit not only the physical, mental and moral traits of their parents, but to be influenced by their age as well. Children born of very young fathers and mothers never attain so vigorous a growth of mind or body as those of older men and women, while children of old people are born old. One of the most surprising cases in medical history in that of Marguerite Cribsowna, who died in 1763, aged 108 years. When ninety-four she was. married to a man aged 105. Three children came of this union, but they had gray hair, no teeth, were stooped, yellow and wrinkled, decrept in movement, and sould eat only bread and vegetables."

Try an application of olive oil saturated with camphor for inflammatory swellings and rheumatic joints.

Glycerin is too drying for a skin natu- its cannon and mounted troops was in rally deficient in moisture. A little clive a fair way to win at all points. But beoil rubbed on after the bath benefits a dry fore the blow came to settle the doors of the

An excellent cure for warts is to add as much salammoniac to an ounce bottleful of soft water as it will dissolve, and apply a little three or four times a day to the wart. Breathing the fumes of turpentine some times relieves the whooping cough.

Mutton tallow, with a little tannin in i is good for chapped skin. Flexible collodion is convenient to have n the family medicine chest. It is useful

for cracks in the hands, cuts, scretches, etc.



WEDDING CARDS.

Good Form in Church Wedding and An-Late invitations from Tiffany's for a church wedding consists of a note sheet engraved according to the following form-

Mr. and Mrs. Richard Morton Walter request the honour of your presence at the marriage of their daughter Florence

Mr. James Lincoln Howard on Thursday evening, December the eighth, at eight o'clock. Trinity Chapel West Twenty-fifth Street.

New York. Appendement cards from the same source are also on a note sheet and read thus: "Mr. and Mrs. David Delong annonnes the marriage of their dengliter Frances Margaret to Mr. Stephen Van Alstyne on Thursday, December the first, eighteen bundred and ninety-two, at 45 Blank street, New York."

It is noticeable that the honour (spelled English fashion, with a u) of your presspelled out in full. Names are also given in full, the employment of initials, nicknames or abbreviations, such as Fannie or Flo, in place of Frances and Florence, being distinctly bad form. These note sheets fold once and are placed in perfectly plain envelopes with square fires, which in turn news is this -that the reign of the large hat are inclosed in ordinary square envelopes.

Correct Speech at Home.

One sometimes hears very inelegant phrases on the lips of those whose intelligence would seem a warrant for elegance. Such superfluities as "got," "I have got," when "I have" is sufficient; such corrup- torreditary chief. Schonchin. Orders were tions as "ain't" for "aren'ty" such blun- sent by the Indian agent to the army tage cry, which was a ruse so far as the square ders as "you was" and "we was" for "you move the Modocs to their reservation with was concerned, the avages field were" and "we were;" such slinebul forms as "John invited Lewis and I to dinner;" ment of cavalry made a night march, sur such lamentable vulgarisms as "hadn't prised Captain Jack's camp while the lead ought" and "he don't know nothing," in er and his warriors were in bed, shot down stead of simply "ought not" and "he For Pand wounded others, and retired with deesn't know anything," occasionally a loss of "I man killed and Twounded." amage us in the assess of people who have The Modoca got away to the large Bala, had excellent advantages, perhaps have massacreing citizens along the route and been graduated from good schools. The only explanation, says Harper a Ba-

assimilate rapidly. They are marvels of Canby, commanding the department, took imitation. Issensibly to themselves they a hand. Bringing his long experience with take on the accent, the modulations, the indians to bear be had previously advised their go. when they have captured modes of these about them and injusture that force be dispensed with, a new reser have if they meet him standing till continue that the previously advised their go. modes of these about them, and institute that force be dispensed with a most recennies are as readily adopted as correct forms. Fation be net apart and the Modoconditions The only enfety is in exacting correct time to move to it, and other measures to bim and putting their heads from a pooch at home. Parents should be rigid protect the indians from injustice and set their peculiar cries. The have remaining a watch upon themselves. How faces the faces from injustice and set their peculiar cries. The have remaining a watch upon themselves. are some of the floral designs, and one in maintaining a watch upon themselves, there from annoyance. After this advice quies and it is sometimes possible to a specially attractive, consists of banches of knowing that the least blunder, stang or had been tendered the Indian barrers and him apprendict of as he is in the filles of the valley in their true shader volgarism will be repeated in their chil
attractive consists of banches of knowing that the least blunder, stang or had been tendered the Indian barrers and him apprendict of gobbling banks. thrown on a satin ground of tender green. deen, and they cannot too vigilantly guard suit as above stated, of hunting the Madocs heads. The language of the turk Some new umbrellas have flat handles, the little ones nor too strengonsly insist fato the Lava Beds beyond the reasts of not unlike the blade of an our, some being upon correct and elegant speech in the life force or diplomacy. fitted with a couple of rings, through of the home. Nothing is more difficult. which cords and tassels are tied. Minis guard against in mature life than the fa tairs birds and degrars introduced into the miliar mords that slip so easily from the

THE CANBY TRACEDY IN THE MO

Porced Into a Trying Alteration. Braze Seldier Ignored the Voice of Warning and Obeyed Orden at the Canby take sole charge of the warning Cont of His Life

lay in waiting on the morning of April 11, over night. Beston Charley person in the in the Lava Bedsand on the morning of April 11, over night. Beston Charley person in the Lava Bedsand on the normal land before the Academia 1873. Captain Jack had broken his profile. des Stienes de Paris on these researches again and again within a few days prethey state that the gause and appropriate coding the "peace talk," which he made and it was all right Capt, fack contribute on hand to negoriate for a negoria

gradual formation of young and very vas does. It was a singular state of all first that he was medicating treachery. On the cular tissue filling the lacunge of the there at the Lava Beds of Tale lake, with night that Bogue Charley and Boston sponge, of which the framework was grad an "army with banners" on one side and a Charley came in with their propose the edged w th frills of lace, and close fitting lace caps, and they carried small baskets a very small space in the midst of the new-of pure white flowers. The boys' costumes by formed tissue destined to repair definition the larger part being regulars, but the boys' costumes by formed tissue destined to repair definition that the larger part being regulars, but the boys' costumes by formed tissue destined to repair definition that the larger part being regulars, but the boys' costumes by formed tissue destined to repair definition that the larger part being regulars, but the boys' costumes by formed tissue destined to repair definition that the larger part being regulars, but the boys' costumes by formed tissue destined to repair definition that the larger part being regulars, but the larger part being regulars, but the boys' costumes by formed tissue destined to repair definition that the larger part being regulars, but the larger part being regulars, but the larger part being regulars, but the larger part being regulars. edged w to frills of lace, and close fitting ually disorganized, and soon occupied but handful of fugitives outlawed savages became more surned than before ind hundred, the larger part being regulars, provided with the best implements of war, including cannon: The Indian warriors numbered about two score, and had good small arms, but not much ammunition The United States forces had been in the field for months upon an expedition to force the Modocs to go upon a reservation Several battles had been fought and the Modocs, generally victorious, had secured amminition from the dead soldiers. The position occupied by the Indianahad given them the upper hand in many a desponse fight with great odds. It was its admiren region known as the laws Beds where volcanic unheavals have left a regular series of ridges, broken at the surface by deep crevices running both lengthwise and crosswise. The crevices formed hidden passages for the Indians to move about. and where it suited their purposes they kindnesses to the red men. Swerm me blocked them against the invaling troops wills were offered to the whites by appear by rolling huge rocks down from above Jack's followers, but he disk and check

> When matters reached a crisis, however, the army surrounded the place, and with Modocs forever hostilities were suspended by orders from Washington at the request of the Indian bureau. What the dislomatic world calls negotiation, but in the parlance of the plains is known as a "peace talk," was to be brought into use at a moment when the scalping knives of the Modocs were dripping with blood and their victims lay unburied and bleeding within sight of spot prepared to fight and finish the bust ness. Not that he was a cruel ludian hater. On the contrary, he was a friend of the red man and had proved it scores of times, even as far back as the Seminole trouble. But he thought that patience had comment to be a virtue and it was time to cease talking and go to shooting. The Modocs were not a new species. The soldiers knew them and the settlers as well. They had grievaness too. the more because of breeding over their

in the Lava Beds could keep twenty at a

1849, they destroyed many whiterand were good: afterward whipped by Capt. Nathames Lyon's forces for their forage upon set tiers. In 1852 the settlers organized, and after a terrible massacre invited the Modoes to a "peace talk" and killed 41 out of 46 warriors who responded. Naturally, savage tradition didn't allow that sort of negotiation to die out of remembrance.

After years of war, in which they got the worst of it, of course, they ceded their hands and agreed to ge on a reservation. The band then went on the Klamath. reservation, where then had no means of living, were cheated out of their supplies. and tormented by their natural enemies. the Klamaths. Groups of them strayed back to their old home on Klamath like,



supe more the war was on.

The soldiers, 450 strong, attacked the zar, is the obvious one that habitated speech have Beds in January, 167, with a santedate classroom discipline. Children of 40 killed and wounded, and then Gen

Canby reported to the war department stance they have joined for since that peace would not be possible mach make it on the highested speace Captain Jack's band should be "midded

March the peace commissioners, hands and reported lathure. Late the stokens, with six unarmed mental Medoc hand, late in March return of the ine to asked the return of the ine to asked the

and acting under instructions tra-(Copyright, 1862, by American Press America ters, he marched upon the Wodor tare tually holding the sweet in our band 1 AD Sea Cashf the olive branch in the other The hace anter to Brite were surrounded the soule charge bethe very tempting to out of the Indian and the

charge to the very tempting to one off the Indian and its present of a pair and to prevent their escape.

non fixing double Thus matters stood when Cape Jair in canister be would present a peace selk at a leur/to report have shown fourths of a mile outside the semi linear responding that Col Official who was in immediate be did when he mand of the troops and the source and the present for should meet himself. Schonelin and present of his sol or three others. The madistant is ranks of his sol or three others. The mediators of the

> panel in their pleas and decircul that the hour serived Geo Canly, Meachens Dier. two Morior mediators, went out through the ploket lines, covered by the eyes of the army wigner officer. Col. Gillem dailing a The entry was under arms, remix for an

The purty find revolvers upon their per som, and on reaching the tent found Cap tain Jack with five others awaiting times The Indiana wore pistols at their belts Meschem spoke first of the humane in tentions of the government. Campy for lowest, reminding the Indians of his pass The army officers reported that one man them nor apologize These incidents in commetion with the pistole at the help of the Modoes were taken as an evidence that



show for bearance and display confidence in dealing with the ignorant and next the In the early days of California. 1847 to savages and Canby permitted the talk

The Indians finally took the floor, and at that moment their crafty brethren lack it the Lava Beds were attempting to draw the officers of Canby's outposts into a pariet Finding that they could not do so the opened fire and wounded a heutenidal like was seen from the signal station and was bout to be communicated to tanti; where ly disperse. In un instant firing began unit the ready soldiers started to the central cionviewnick But it was too later

The talk had lasted two hours when Schonebin took up the Modoe cutting with Captain Jack retired from the circle. The next move was the appearance in inc strange Modocs at a point near in water their arms full of rifles This was a signif that the attack on the army outputs was bader way Captain lack, coming up from baland, presented his pistol at Capital band and support it, but it did not so of All-thewhites took alarm and scattered at the same time drawing their wairing Captain Jack shot Camby but not farang and he started to run, pursued in the Modoca A second builet brought and down and an Indian sprang upon him and

Blanzeda knife into bis neck. Dr. Thomas mainstants killed at the first fire The chief peace commissioner fell a vic tim to Schoochin, whose father but here butchered at the "peace talk" impossing eighteen years before. Meachem was pur sued and fired upon until he fell. Meinting Dver and the interpreter Riddle Indiana caped, and the squaw "Tobe" lay selection on the ground, felied by a blow on the head. As Meachem dropped to the granual Madoc rap toward bim with a trews sealping knife and was about to disputch Im when "Tobe" revived, and seeing that her word fears had been realized screenieth "The soldiers are coming." At this on

the Modoceno peace until they were a river from the Lava Bels autkuptured days a Jack, Schonchin, Boston & baries and Black Jim expiated their revengeful deal upon a new asservation as Caulty that an vised before the double duty of lighting and negotiation was forced upon him GEORGE L. KILLER

When Turkers Are Angry In countries where flocks, of turkens mised of an learn very quickly from that time incontestably dignificant in After the bloody failure of January, when they are fighting, in the product